INTERNATIONAL SEARCH REPORT

PCT/JP2004/011641

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C01B13/20 C01F CO1F17/00 C01G45/02 CO1F7/16 C01G15/00 C01G23/00 C01G25/00 C01G35/00 CO1B35/12 C01B33/20 According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) CO1B CO1F IPC 7 CO1G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 6 391 273 B1 (FRIES TORSTEN ET AL) 1-25 21 May 2002 (2002-05-21) claims X US 5 075 090 A (LEWIS DUANE J ET AL) 1-25 24 December 1991 (1991-12-24) column 3, line 24 - line 65; claims: X EP 0 055 459 A (KAMATA KIICHIRO; RIKUUN 1 - 25ELECTRIC CO (JP)) 7 July 1982 (1982-07-07) cited in the application page 7, line 7 - page 10, line 11; claims: examples X US 5 876 683 A (CHEN YIJIA ET AL) 1 - 252 March 1999 (1999-03-02) claims. Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the *A* document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another document of particular relevance; the claimed invention citation or other special reason (as specified) cannot be considered to involve an inventive step when the document is combined with one or more other such docu- O document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 11 November 2004 18/11/2004 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tei. (+31-70) 340-2040, Tx. 31 651 epo ni, Van der Poel, W Fax: (+31-70) 340-3016

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C.(Continua Category •	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	
Jaregory	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	US 4 842 832 A (INOUE HAKUAI ET AL) 27 June 1989 (1989-06-27) examples 3-24	1-25
X	PATENT ABSTRACTS OF JAPAN vol. 008, no. 222 (C-246), 9 October 1984 (1984-10-09) & JP 59 107904 A (NIPPON SODA KK), 22 June 1984 (1984-06-22) cited in the application abstract	1-25
		
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